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(54) ADAPTIVE ANTENNA SYSTEM

(57) Abstract:

PURPOSE: To suppress all disturbing waves effectively even when there are plural disturbing waves by providing auxiliary antennas with filters having different passing bands respectively.

CONSTITUTION: The band-pass filters 60@62 connected to the auxiliary antennas 11@13 have bands obtained by dividing a band a little bit wider than the band of a main antenna by three. The output of the band-pass filter 60 is supplied to a hard limiter to make its amplitude constant and then inputted to a correlating loop. In the correlating loop, disturbing waves obtained by the auxiliary antennas are subtracted from a signal from the main antenna and the zero point of directivity is set in a disturbing wave direction to remove the disturbing waves. Since the bands of the auxiliary antennas are limited, even disturbing waves differing in frequency and level are removed effectively

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